

# Our Mission Public Works

Mission: To consistently exceed customer expectations in providing the quality public works infrastructure and services our community demands

### Public Works

#### Administration

Capital Projects
Management

Facilities Management

Fleet Management

Street Operations

Solid Waste Management

- \$63 million operating budget
- 295 full-time staff



### **Proposed Projects**

- Traffic Signal Controller Cabinet Upgrade and Replacement: \$9.8M
- Street Operations Maintenance Building: \$1.1M
- Solar Pool Water Heating: \$1.8M
- Expired/Quiet Pavement Replacement-\$15.4M



### Traffic Signal Upgrade Scope

- Replacement of all traffic signal controller cabinets at existing signalized intersections.
- Installation of battery backup systems at 100 most critical intersections.

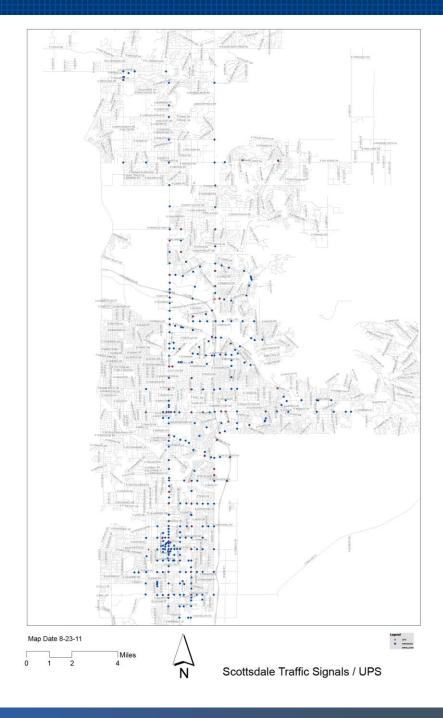


### Traffic Signal Upgrade Benefits

- Added functionality through new technology;
   Signalized intersections will be "smarter"
- Improved progression and traffic flow along primary corridors
- Battery backup to ensure signal operation during power outages
- Improve air quality by reducing traffic congestion and improving efficiency at intersections



### Locations of Traffic Signal Intersections





### Example of a Traffic Signal Controller Cabinet





### Maintenance Building Scope

- Purchase approximately 3 acres of land for a storage and staging area for the Street Operations Department.
- Design and construct a maintenance building for staff use



#### Maintenance Building Benefit

- Street Operations crews would be centrally located out of a single facility.
- Reduces the need for seasonal staging of heavy equipment in north or south areas.
- Eliminates travel time and fuel usage from crews driving large vehicles to pick up materials at various locations.
- Response time to road or flooding-related emergencies would be reduced.



### Solar Water Heating Scope

- Solar heating elements at Cactus Park, McDowell Mountain Aquatic Center and Eldorado Park swimming pools
- Includes 60,000 square feet of new ramadas and parking canopy structures



### Solar Water Heating Benefit

- Savings of \$101,000 per year; 40% reduction of existing gas bill
- Leverages APS and SRP rebates
- Project payback from 6 to 8 years
- Clean Energy
  - 5.96 billion BTU's annual production
  - SWH is 75% efficiency vs. 16% for Photovoltaic system



## Expired/Quiet Pavement Replacement

- Remove expired asphalt road surface course in south and central Scottsdale
- Include downtown, local and major streets
- Replace with quieter rubberized asphalt pavement
- Average pavement lifecycle- 15 years

